

Fig. 1A

METHOD OF AND SYSTEM FOR COMMITTING A TRANSACTION TO A DATABASE
Inventors: Srikanth Karimisetty et al.
US Patent Application No. Unassigned; Filed: Herewith
William L. Shaffer (650-326-2400)
Attorney Docket No.: 21756-005100US

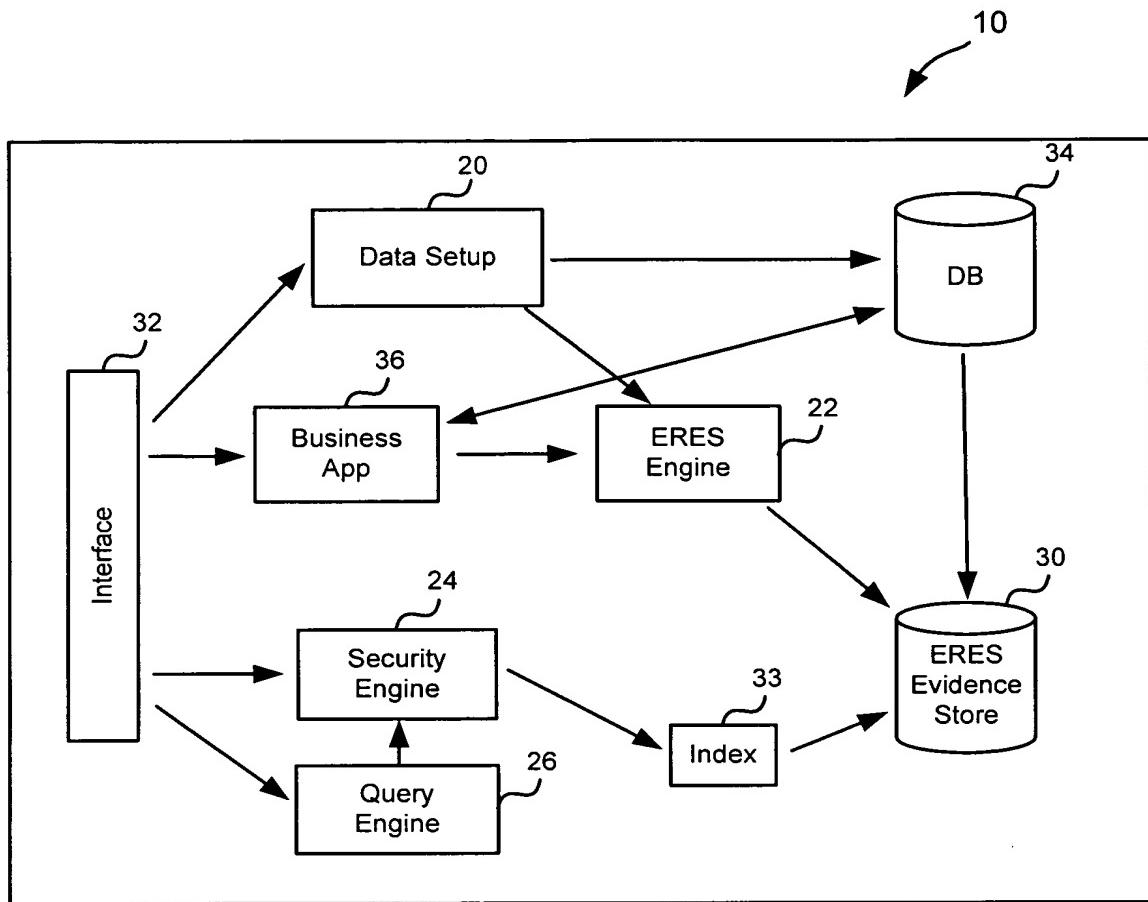


Fig. 1B

30a

Name	Datatype	Length	Mandatory	Comments
DOCUMENT_ID	NUMBER		Yes	Unique document id
PSIG_XML	CLOB	(4000)		XML document
PSIG_DOCUMENT	CLOB	(4000)		Electronic record as seen by user
PSIG_DOCUMENTFORMAT	VARCHAR2	(100)		Format of the Document
PSIG_TIMESTAMP	DATE			Timestamp when the document was requested
PSIG_TIMEZONE	VARCHAR2	(240)		Time Zone the document was initiated
DOCUMENT_REQUESTER	VARCHAR2	(240)		Document requester
PSIG_STATUS	VARCHAR2	(32)		Status of the document (ERROR, PENDING, COMPLETE)
PSIG_SOURCE	VARCHAR2	(32)		Source of the Document
EVENT_NAME	VARCHAR2	(80)		Event associated to the document
EVENT_KEY	VARCHAR2	(240)		Event instance identifier
PRINT_COUNT	NUMBER			Number of time document requested from printing
CREATION_DATE	DATE			WHO Column
CREATED_BY	NUMBER			WHO Column
LAST_UPDATE_DATE	DATE			WHO Column
LAST_UPDATED_BY	NUMBER			WHO Column
LAST_UPDATE_LOGIN	NUMBER			WHO Column

30b

Name	Datatype	Length	Mandatory	Comments
SIGNATURE_ID	NUMBER			Signature ID
DOCUMENT_ID	NUMBER			Document Id Refers EDR_PSIG_DOCUMENTS
EVIDENCE_STORE_ID	NUMBER			Evidence Store Id if the signature are present in Server Tech Storage
USER_NAME	VARCHAR2	(100)		User name who signed the Document
USER_RESPONSE	VARCHAR2	(100)		User Response
SIGNATURE_TIMESTAMP	DATE			Signed Time and Date
SIGNATURE_TIMEZONE	VARCHAR2	(240)		Signature Time Zone
SIGNATURE_STATUS	VARCHAR2	(32)		Signature Status (PENDING, COMPLETE, ERROR)
CREATION_DATE	DATE			WHO Columns
CREATED_BY	NUMBER			WHO Column
LAST_UPDATE_DATE	DATE			WHO Column
LAST_UPDATED_BY	NUMBER			WHO Column
LAST_UPDATE_LOGIN	NUMBER			WHO Column

Fig. 2

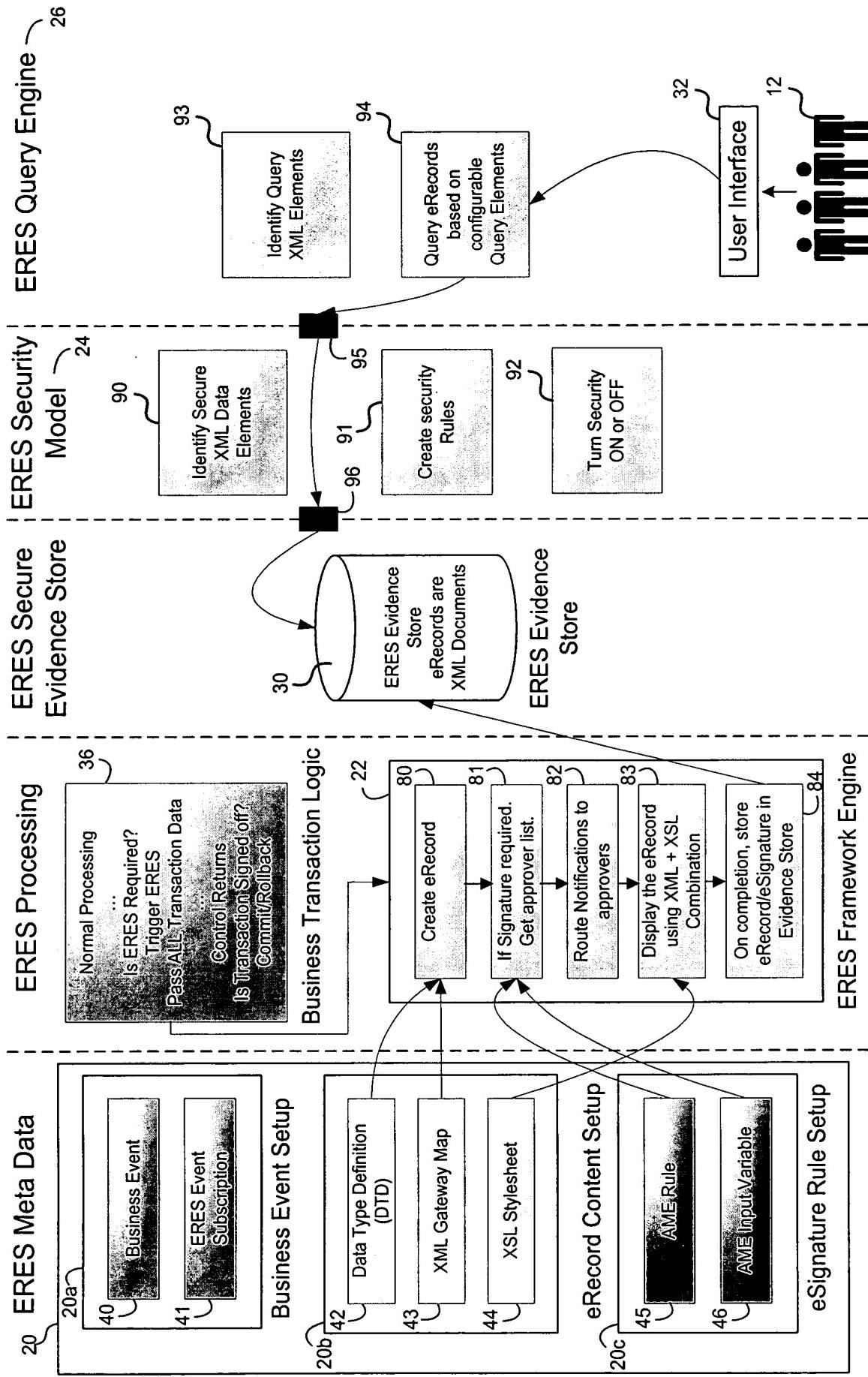


Fig. 3

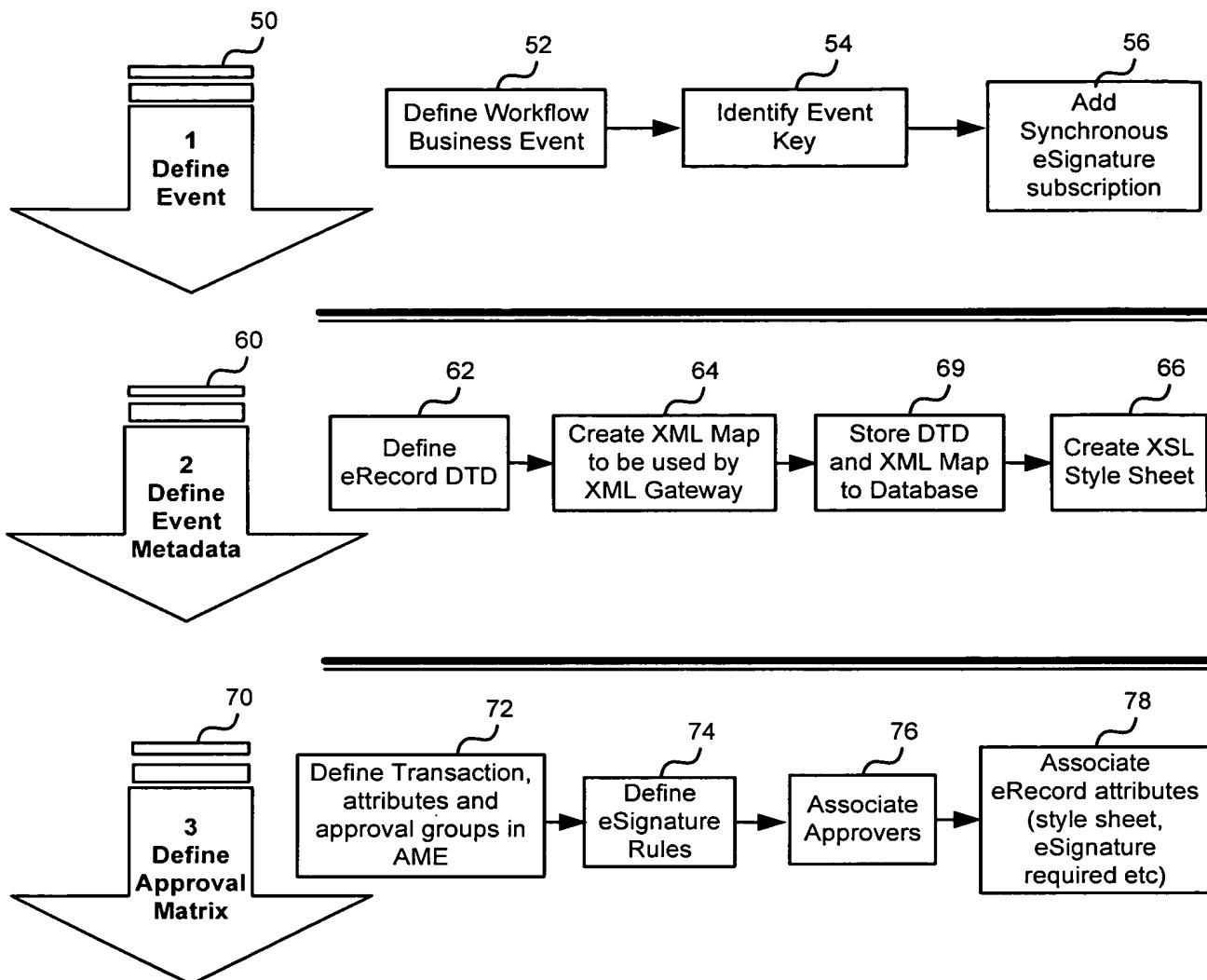


Fig. 4

80

ORACLE

Name oracle.apps.gme.Batch.close 81

Display Name Process Batch Close Event 82

Description This Event is raised when a process batch is closed 83

Status Enabled 84

Generate Function

Owner Name Process Execution

Owner Tag GME 85

Submit Cancel 86

Fig. 5

Rule	Attribute 93	Approver(s) 94
If PLANT = "Plant 1" And PRODUCT = "Cyanide"	eRecord = Yes eSignature = Yes eRecord Style Sheet = StyleSheet12.X51	James Dunn and Mark Arthur
If PLANT = "Plant 1"	eRecord = Yes eSignature = No eRecord Style Sheet = NULL	David Anderson

Fig. 6

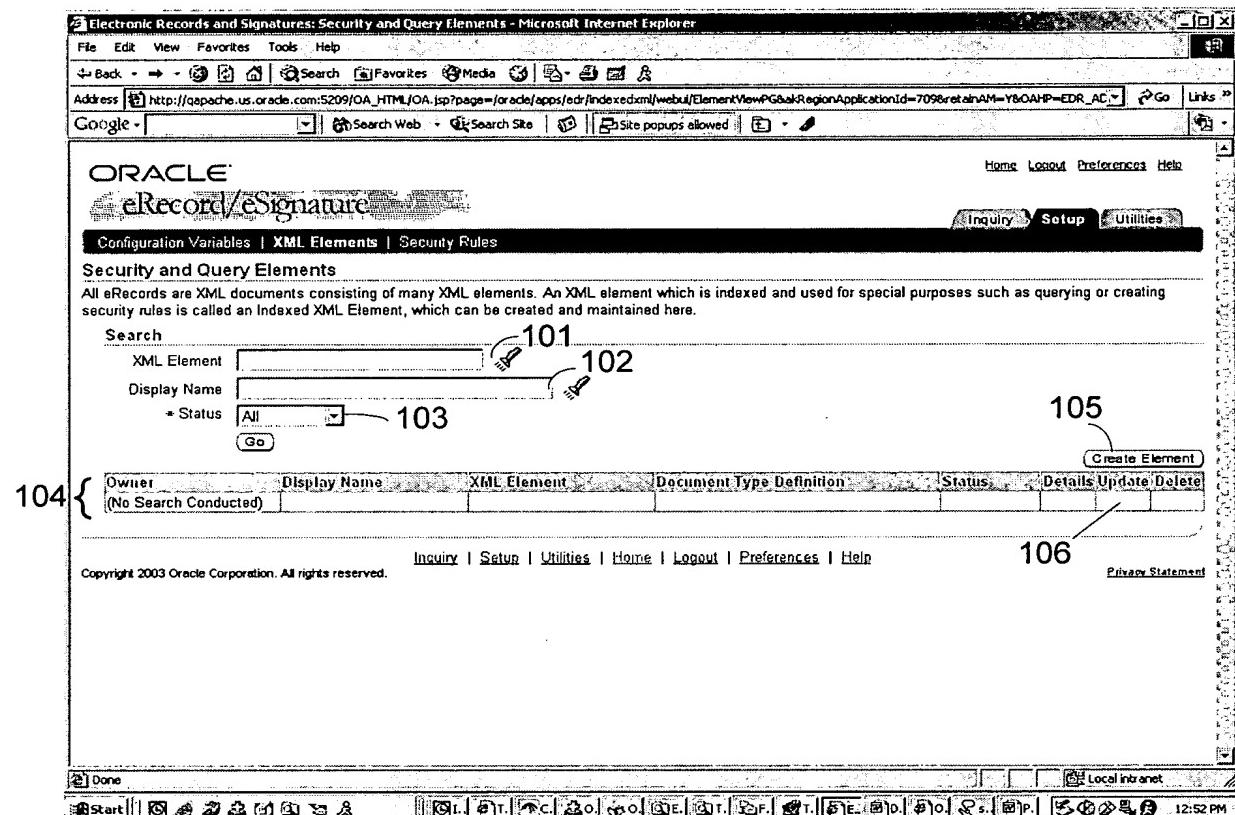


Fig. 7

eRecord Indexed XML Element Creation

Text explaining the use of the page

Owner Application 111

XML Element Name 112

Document Type Definition 113

Display Name

Query Element 111

Secure Element 112

Cancel Apply

Fig. 8

METHOD OF AND SYSTEM FOR COMMITTING A TRANSACTION TO A DATABASE

Inventors: Srikanth Karimisetty et al.
 US Patent Application No. Unassigned; Filed: Herewith
 William L. Shaffer (650-326-2400)
 Attorney Docket No.: 21756-005100US

33a

Name	Null?	Type	Description
ELEMENT_ID	NOT NULL	NUMBER	Surrogate Primary Key.
XML_ELEMENT	NOT NULL	VARCHAR2(30)	XML element identified as being searchable
DTD_ROOT_ELEMENT		VARCHAR2(30)	Root element of the XML
APPLICATION_ID	NOT NULL	NUMBER	Application ID of the application owning the query element.
INDEX_SECTION_NAME	NOT NULL	VARCHAR2(30)	Name of the section created in the index for the query element
INDEX_TAG	NOT NULL	VARCHAR2(64)	Tag used to create the section in the index. Unique Constraint.
STATUS	NOT NULL	CHAR(1)	Status of the query element. It can be I(ndexed) or N(ot Indexed).
CREATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
CREATION_DATE	NOT NULL	DATE	Standard WHO column
LAST_UPDATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
LAST_UPDATE_LOGIN		NUMBER(15)	Standard WHO column
LAST_UPDATE_DATE	NOT NULL	DATE	Standard WHO column

33b

Name	Null?	Type	Description
ELEMENT_ID	NOT NULL	NUMBER	Partial Primary key.
LANGUAGE	NOT NULL	VARCHAR2(4)	Partial Primary key. Language used for translatable columns
SOURCE_LANG		VARCHAR2(4)	Source language
DISPLAY_NAME	NOT NULL	VARCHAR2(100)	Display name of the query element. This would be visible to end users.
DESCRIPTION		VARCHAR2(100)	Description of the query element.
CREATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
CREATION_DATE	NOT NULL	DATE	Standard WHO column
LAST_UPDATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
LAST_UPDATE_LOGIN		NUMBER(15)	Standard WHO column
LAST_UPDATE_DATE	NOT NULL	DATE	Standard WHO column

33c

Name	Null?	Type	Description
USAGE_ID	NOT NULL	NUMBER	Surrogate primary key
ELEMENT_ID	NOT NULL	NUMBER	XML element used in creating the security rule.
ELEMENT_USAGE	NOT NULL	CHAR(1)	The usage of the XML element. It can be Q(uery) or S(ecure)
CREATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
CREATION_DATE	NOT NULL	DATE	Standard WHO column
LAST_UPDATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
LAST_UPDATE_LOGIN		NUMBER(15)	Standard WHO column
LAST_UPDATE_DATE	NOT NULL	DATE	Standard WHO column

Fig. 9

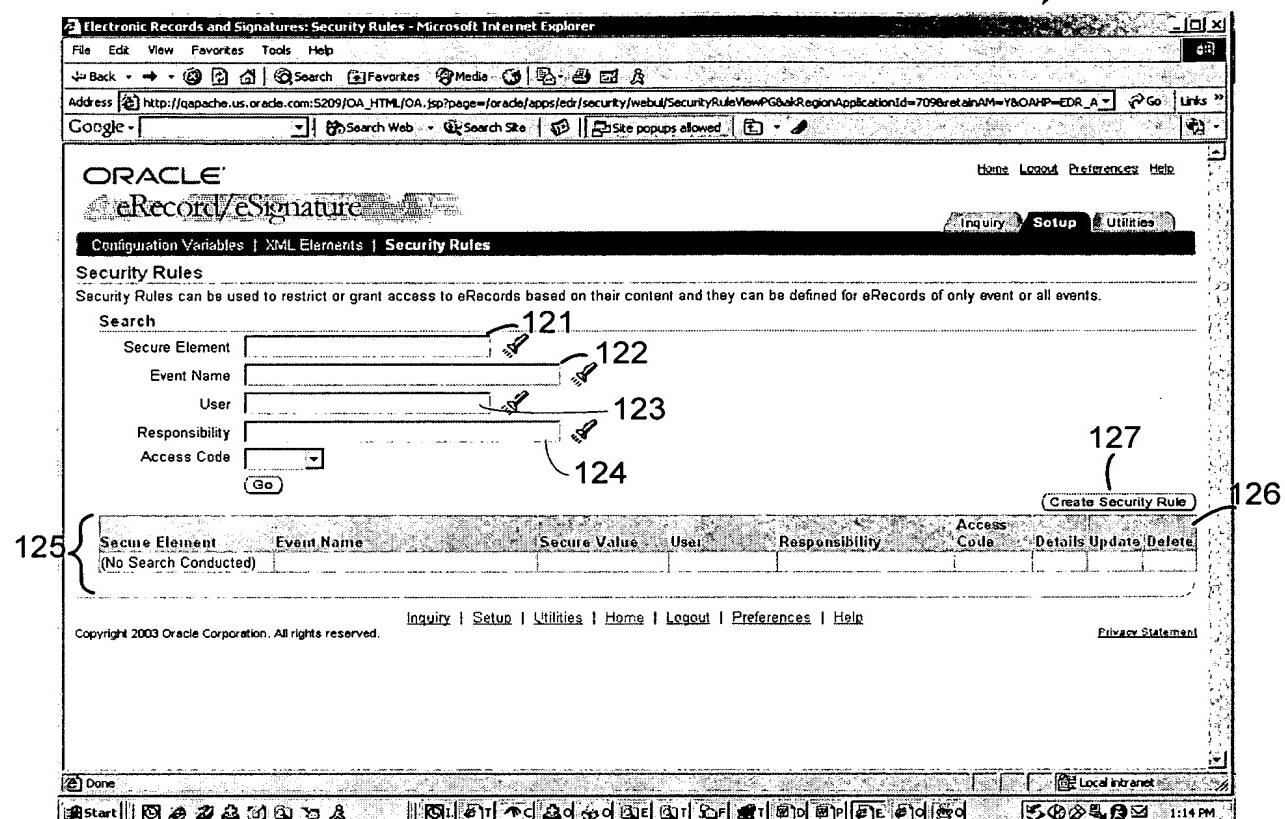


Fig. 10

Name	Null?	Type	Description
RULE_ID	NOT NULL	NUMBER	Surrogate primary key
ELEMENT_ID	NOT NULL	NUMBER	XML element used in creating the security rule.
EVENT_NAME		VARCHAR2(240)	Business event name used in creating the security rule.
SECURE_VALUE	NOT NULL	VARCHAR2(100)	Value secured by the security rule
USER_ID		NUMBER(15)	User ID of the APPS user for whom security is created
RESPONSIBILITY_ID		NUMBER(15)	Responsibility ID of the APPS responsibility for which security is created
ACCESS_CODE	NOT NULL	CHAR(1)	Access code can be G(rant) or R(estrict)
START_DATE	NOT NULL	SYSDATE	Start date for the rule
END_DATE		SYSDATE	End date for the rule
CREATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
CREATION_DATE	NOT NULL	DATE	Standard WHO column
LAST_UPDATED_BY	NOT NULL	NUMBER(15)	Standard WHO column
LAST_UPDATE_LOGIN		NUMBER(15)	Standard WHO column
LAST_UPDATE_DATE	NOT NULL	DATE	Standard WHO column

Fig. 11

eRecord Security Rule Creation

Text explaining the use of the page

Secure Element 131

Event Name 132

Secure Value 133

User 134

Responsibility 135

Access Code 136

Start Date 137

End Date 138

(Cancel) (Apply)

Return To Portal Diagnostics Logout Preferences

Fig. 12

Search Documents

Search 141

Simple 144

Advanced

Event Name 143

From Date 146

To Date 147

Signer 148

Find 149

Clear

Cancel

Events 155

Event 150

Identifier 151

Timestamp 152

Timezone 153

Print 154

142

Print

Fig. 13

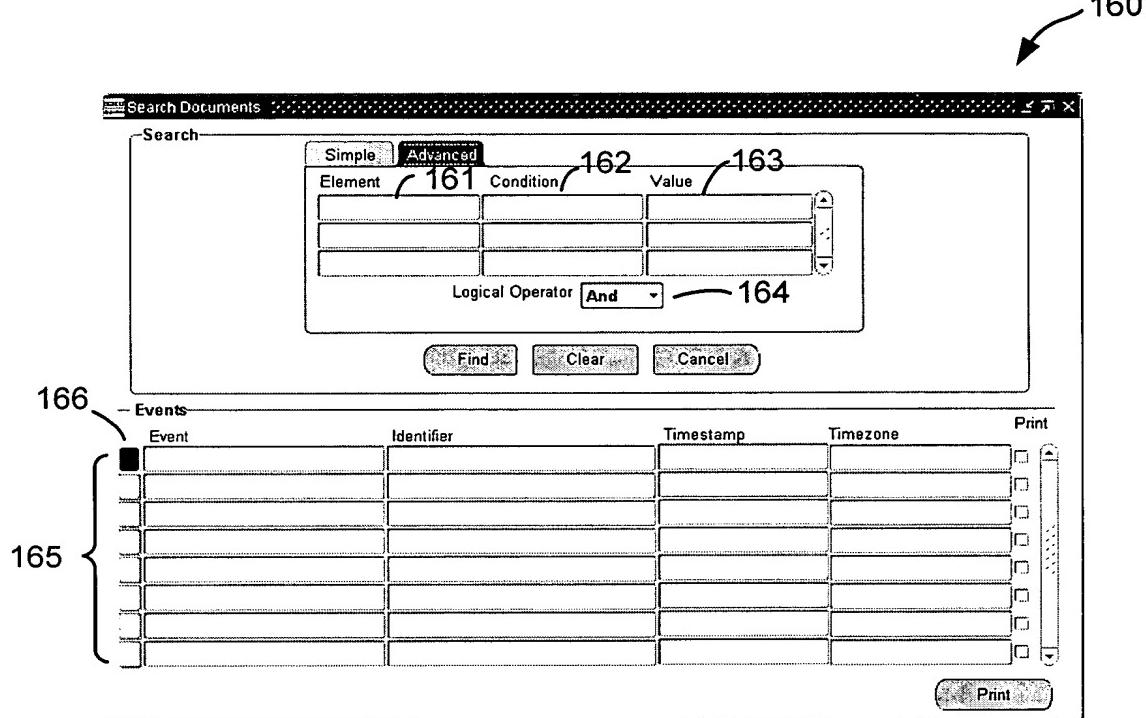


Fig. 14

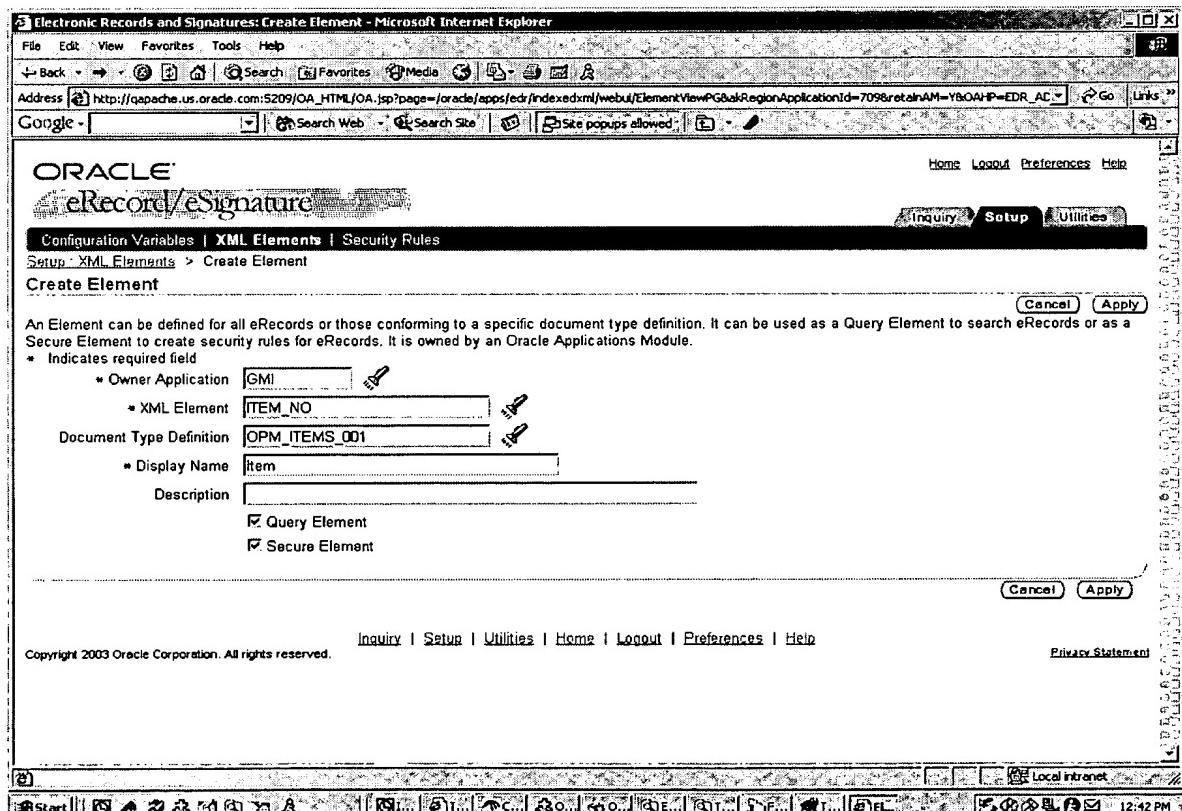


Fig. 15

METHOD OF AND SYSTEM FOR COMMITTING A TRANSACTION TO A DATABASE
 Inventors: Srikanth Karimisetty et al.
 US Patent Application No. Unassigned; Filed: Herewith
 William L. Shaffer (650-326-2400)
 Attorney Docket No.: 21756-005100US

The screenshot shows the Oracle eRecord/eSignature interface. The title bar reads "Electronic Records and Signatures: Create Element - Microsoft Internet Explorer". The main content area is titled "Create Element". It contains fields for "Owner Application" (GMI), "XML Element" (ITEM_NO), "Document Type Definition" (OPM_LOTS_001), and "Display Name" (Lot Item). There are checkboxes for "Query Element" and "Secure Element", both of which are checked. At the bottom right are "Cancel" and "Apply" buttons.

Fig. 16

The screenshot shows the Oracle eRecord/eSignature interface. The title bar reads "Electronic Records and Signatures: Security and Query Elements - Microsoft Internet Explorer". The main content area is titled "Security and Query Elements". It displays a search form with fields for "XML Element" (item_no), "Display Name" (Item), and "Status" (All). Below the search form is a table listing XML elements:

Owner	Display Name	XML Element	Document Type Definition	Status	Details	Update	Delete
GMI	Item	ITEM_NO	OPM_ITEMS_001	Not Indexed			
GMI	Lot Item	ITEM_NO	OPM_LOTS_001	Not Indexed			

At the bottom right are "Create Element", "Inquiry", "Setup", and "Utilities" buttons. The status bar at the bottom right shows "12:3PM".

Fig. 17

170

Oracle Electronic Records and Signatures: Evidence Store - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Home

Address: http://apache.us.oracle.com:5209/OA_HTML/OA.jsp?alRegionCode=EDR_ERQ_FRST_PAGE&alRegionApplicationId=709&language_code=US&rf_ticket=ZGR8C9D1FCA46CB8SC6E

Signer Name:

Transaction Status: Show Successful Transactions

Date From: (example: 31-Dec-2000)

Date To:

Hide More Search Options
 * Indicates required field
 Specify additional search criteria and values to filter the eRecords displayed in the results table.
 * Show eRecords when All search criterion are met

Criterion	Value
Lot Item	171 172 173 4101

Search Clear Add

Time Zone: America/Los_Angeles

Select eRecord(s) and ... (Print)

Select All | Select None

Select Event Name	eRecord ID	Identifier	Identifier Value	Event Date	Status	Related eRecords
<input type="checkbox"/> GMI ERES Lot Creation	25	Item Number - Lot Number - Sublot	4101-SKARIMIS-1-Number	05-Aug-2003 06:42:35	Complete	<input checked="" type="checkbox"/>
<input type="checkbox"/> GMI ERES Lot Creation	23	Item Number - Lot Number - Sublot	4101-SKARIMIS-1-Number	05-Aug-2003 06:41:55	Rejected	<input checked="" type="checkbox"/>
<input type="checkbox"/> GMI ERES Lot Creation	21	Item Number - Lot Number - Sublot	4101-SKARIMIS-1-Number	05-Aug-2003 06:40:06	Complete	<input checked="" type="checkbox"/>

Home | Logout | Preferences | Help

Copyright 2003 Oracle Corporation. All rights reserved.

Privacy Statement

Done Start Stop Back Forward Stop Home Address Bar Search Bar Favorites Bar

Fig. 18

180

Oracle Electronic Records and Signatures: Evidence Store - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Home

Address: http://apache.us.oracle.com:5209/OA_HTML/OA.jsp?alRegionCode=EDR_ERQ_FRST_PAGE&alRegionApplicationId=709&language_code=US&rf_ticket=ZGB399FC67F08601B392F

Signer Name:

Transaction Status: Show All

Date From: (example: 31-Dec-2000)

Date To:

Hide More Search Options
 * Indicates required field
 Specify additional search criteria and values to filter the eRecords displayed in the results table.
 * Show eRecords when All search criterion are met

Criterion	Value
Item	4101

Search Clear Add

Time Zone: America/Los_Angeles

Select eRecord(s) and ... (Print)

Select All | Select None

Select Event Name	eRecord ID	Identifier	Identifier Value	Event Date	Status	Related eRecords
<input type="checkbox"/> GMI ERES Item Creation	135	Item Number	CJ-TEST-2	29-Aug-2003 13:07:30	Complete	<input checked="" type="checkbox"/>

Home | Logout | Preferences | Help

Copyright 2003 Oracle Corporation. All rights reserved.

Privacy Statement

Done Start Stop Back Forward Stop Home Address Bar Search Bar Favorites Bar

Fig. 19

METHOD OF AND SYSTEM FOR COMMITTING A TRANSACTION TO A DATABASE

Inventors: Srikanth Karimisetty et al.
 US Patent Application No. Unassigned; Filed: Herewith
 William L. Shaffer (650-326-2400)
 Attorney Docket No.: 21756-005100US

Create Security Rule

Select a Secure Element and specify the value for the element that needs to be secured. Also, select a User or Responsibility for which the rule is being created and Grant or Restrict access. A security rule can be created for all eRecords or only those created for a specific business event.

- Indicates required field

Secure Element	Item
Event Name	4101
Secure Value	CSINGH
Responsibility	Access Code
Start Date	23-Sep-2003 16:15:50
End Date	

(example: 31-Dec-2000 20:45:00)

Inquiry | Setup | Utilities | Home | Logout | Preferences | Help

Copyright 2003 Oracle Corporation. All rights reserved.

Fig. 20

Evidence Store

The Evidence Store stores all the Electronic Records (eRecords) created for an organization. Each eRecord contains business transaction details, approver information and in some cases approver signatures.

Search

Event Name	4101
eRecord ID	
Signer Name	
Transaction Status	Show All
Date From	(example: 31-Dec-2000)
Date To	

Criterion

Item	4101
------	------

Selected Event Name

eRecord ID	Identifier	Identifier Value	Event Date	Status	Related eRecords
(No Search Conducted)					

Fig. 21